SLOVAMID® 6 GF 45

Polyamide 6

Plastcom

Message:

PA 6 for injection moulding, chemically strengthened with 45% of glass fibre, for mouldings with high strength and toughness used in the automotive, electrical, engineering and consumer-goods industry. Application: grips of electrotools, hobby tools, gears, covers of electric appliances, cooling skrews of blowers, electromotors, carrying parts in the automotive industry. Delivered in natural mode and in the full RAL colour scale.

General Information			
Filler / Reinforcement	Glass Fiber,45% Filler by Weight		
Features	Chemically Coupled High Strength Ultra High Toughness		
Uses	Appliances Automotive Applications Consumer Applications Electrical/Electronic Applications Engineering Parts Flexible Grips Gears Power/Other Tools		
Appearance	Colors Available Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PA 6		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.50	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ISO 1133
Molding Shrinkage			STM 64 0808
Across Flow	1.1	%	
Flow	1.5	%	
Water Content	0.15	%	ISO 960
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	14000	MPa	ISO 527-2
Tensile Stress (Yield)	210	MPa	ISO 527-2
Tensile Strain (Yield)	2.0	%	ISO 527-2
Flexural Modulus	12200	MPa	ISO 178

Flexural Stress	290	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-20°C	12	kJ/m²	
23°C	14	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-20°C	80	kJ/m²	
23°C	90	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	210	°C	ISO 75-2/B
Vicat Softening Temperature	210	°C	ISO 306/B
Melting Temperature (DSC)	220	°C	ISO 3146
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94
Glow Wire Ignition Temperature	650	°C	IEC 60695-2-13
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	250 to 280	°C	
Mold Temperature	70.0 to 90.0	°C	
Injection Pressure	70.0 to 120	MPa	

Recommended distributors for this material

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